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### *PPAP Package for:*

**Newark Electronics  
Customer Part Number: 89Y7745  
(TE Connectivity Part Number): 4-2272004-1  
MAR-2020**

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## **Nondisclosure Agreement**

If a nondisclosure agreement has been reached with your company, it will be included on the following page(s). Please review the terms of this agreement to ensure that further actions associated with information contained within this PPAP package do not violate these terms.

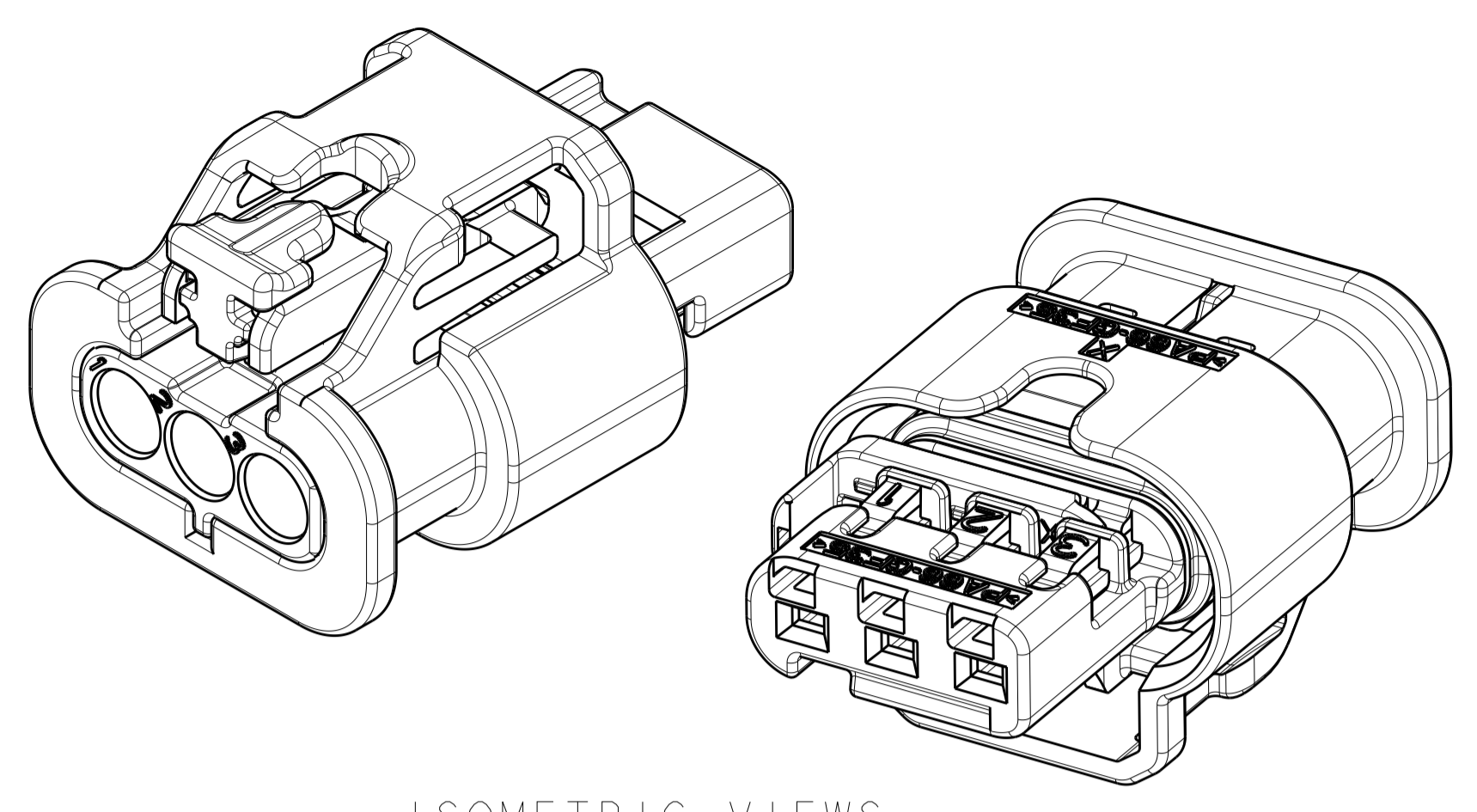
If a nondisclosure agreement HAS NOT been reached, certain documents deemed confidential by TE Connectivity will not be included in this PPAP package. These documents include but are not limited to the Design FMEA, the Process Flow Diagram, the Process FMEA and the Control Plan. These documents can be reviewed by you company but cannot be retained.



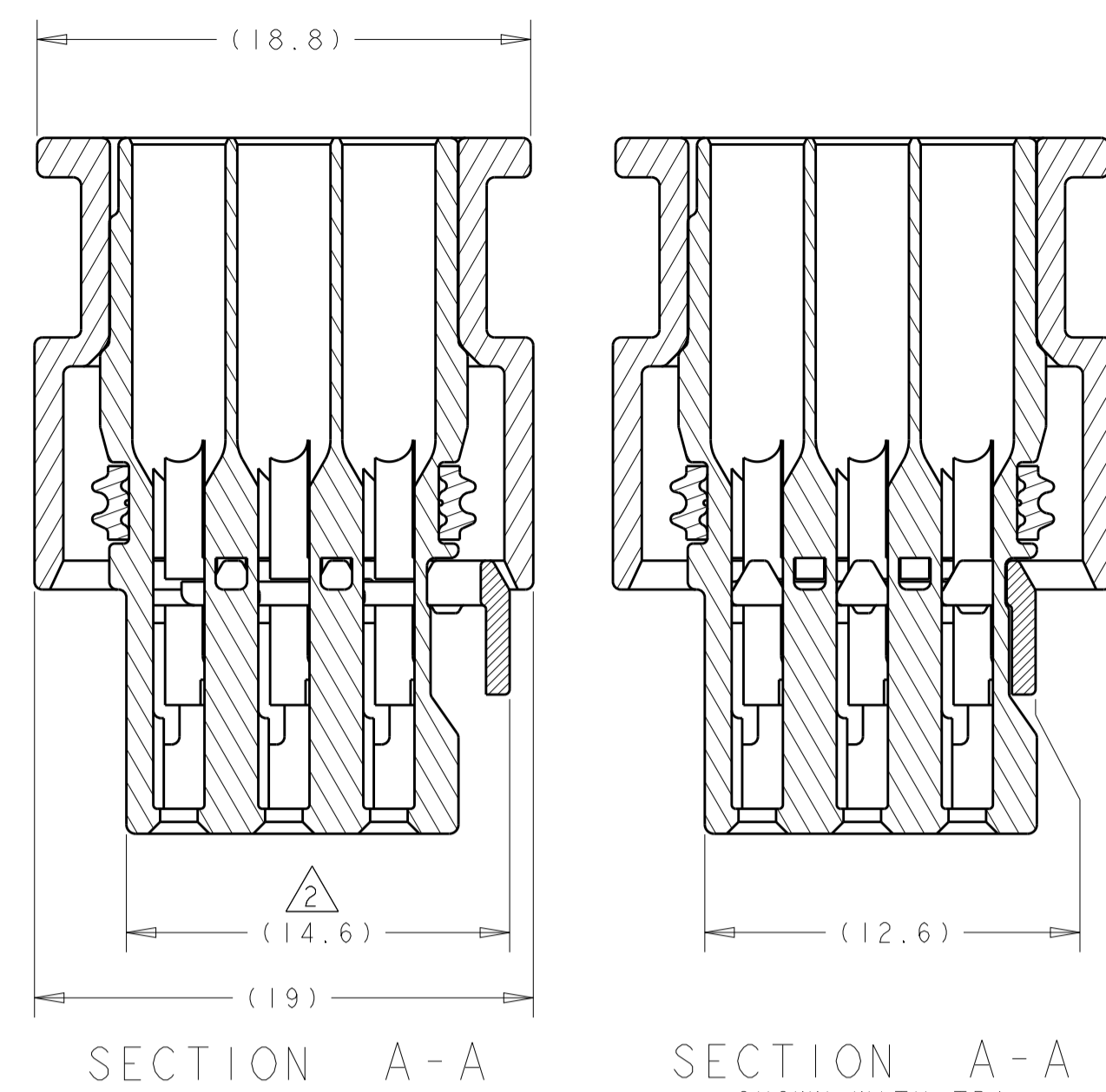
# Section 1

# Design Records

- PART NUMBER 2272004-5 SHOWN ON DRAWING.
- TPA AND CPA (WHEN APPLICABLE) ARE SHIPPED IN THEIR PRE-LATCHED POSITIONS. SEE INSTRUCTION SHEET 408-8928 FOR DIRECTIONS ON MOVING THE CPA AND TPA TO THE PRE-LATCHED POSITION, IF NECESSARY.
- TERMINALS SOLD SEPARATELY. FOR USE WITH TE MCON 1.2mm CLEAN BODY CONTACT WITH WIRE SEAL. SEE TE MCON 1.2-CB (CLEAN BODY) TABLE FOR APPLICABLE PART NUMBERS.
- APPLICABLE INTERFACE DRAWINGS: EWCAP 120-S-003-1-Z01 AND 120-S-003-1-Z02.
- MINIMUM FEED THROUGH CONDITION WITH 0.5mm CLEARANCE ALL AROUND.
- A "X" IN THIS TABLE INDICATES THAT THE TERMINAL CAVITY IS BLOCKED AND WILL NOT ALLOW INSERTION OF THE MATING TERMINAL. A "O" IN THIS TABLE INDICATES THAT THE TERMINAL CAVITY IS OPEN AND WILL ALLOW INSERTION OF THE MATING TERMINAL.
- TRACEABILITY PRINTED IN THIS LOCATION AT ASSEMBLY.
- ICD IS DEPENDENT UPON WIRE INSULATION TYPE AND OD. MUST BE SUFFICIENT TO GRIP SEAL SO IT DOES NOT SLIDE OUT OF INSULATION CRIMP WHEN INSERTING INTO CONNECTOR CAVITY BUT NOT TEAR THE SEAL.
- REFERENCE ISOMETRIC VIEWS ON SEET 2.

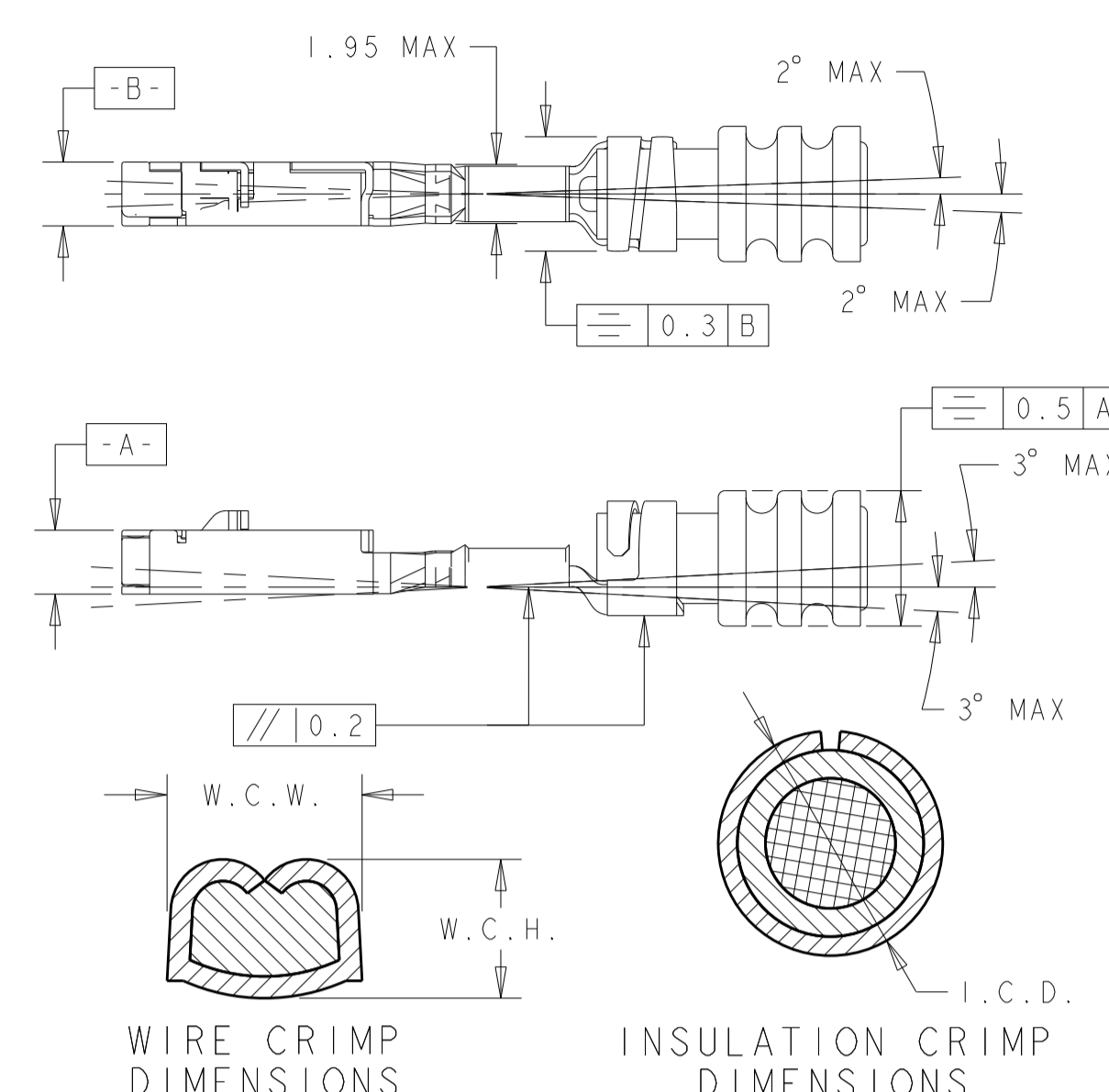


ISOMETRIC VIEWS



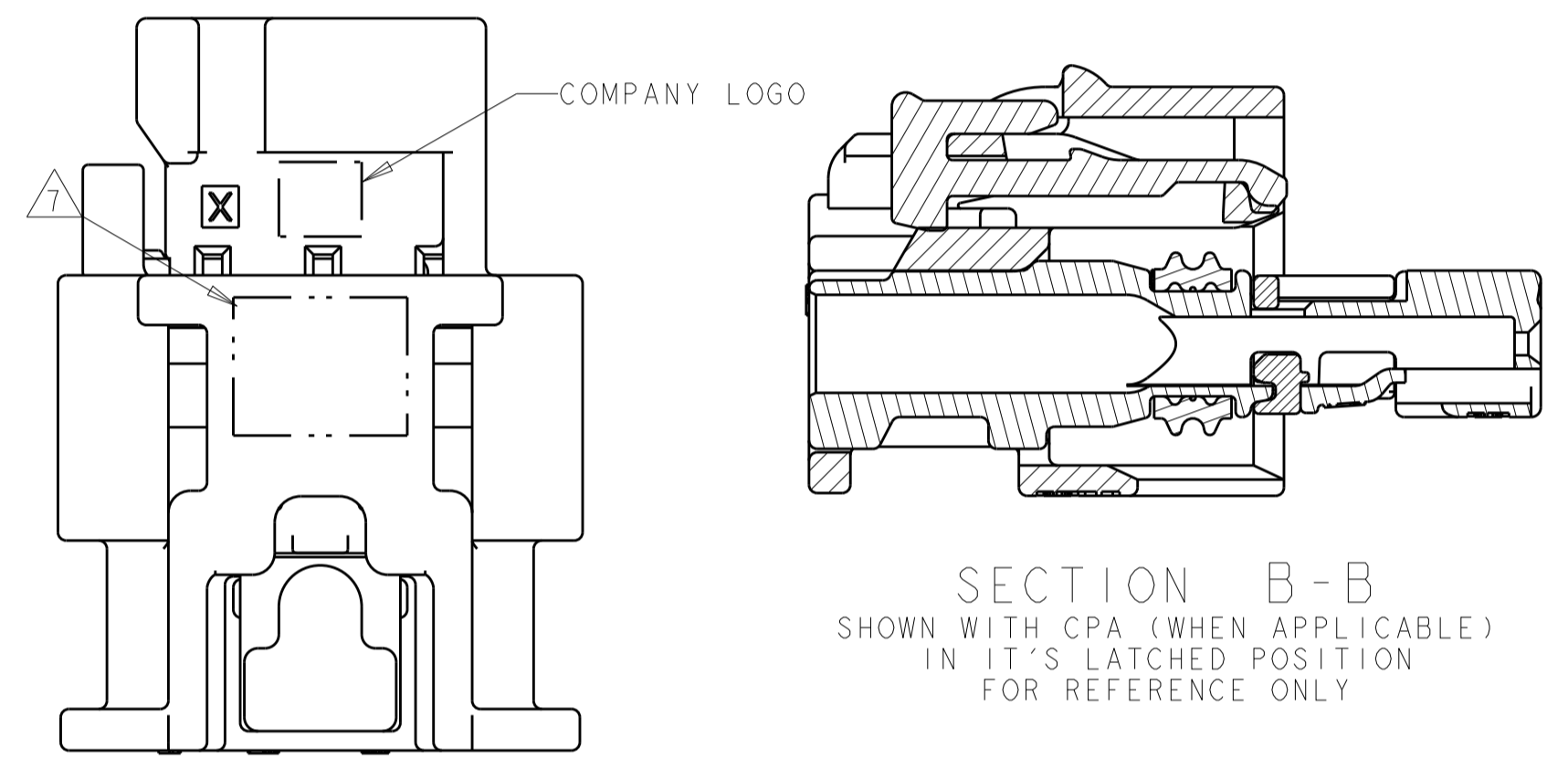
SECTION A-A

SECTION A-A SHOWN WITH TPA IN IT'S LATCHED POSITION FOR REFERENCE ONLY

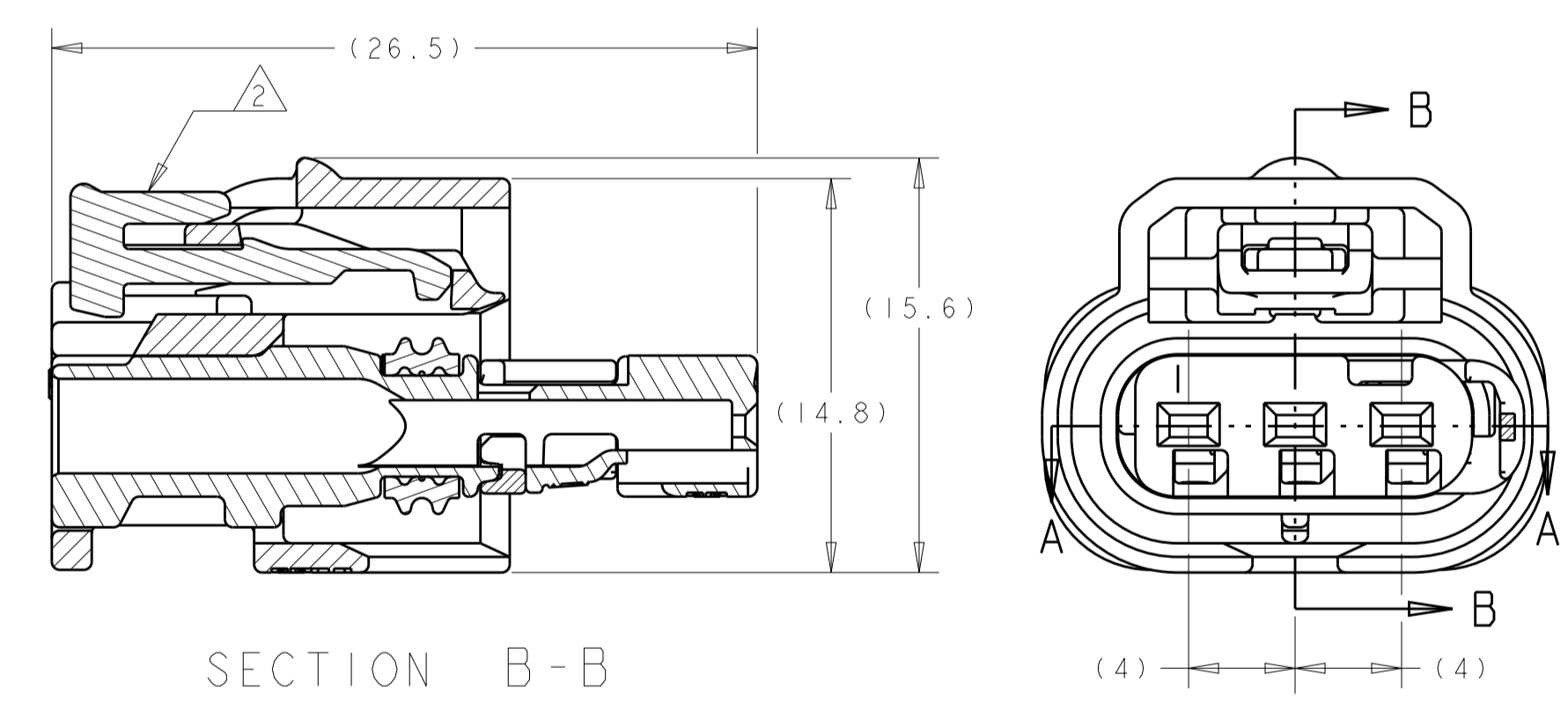


WIRE CRIMP DIMENSIONS

INSULATION CRIMP DIMENSIONS



SECTION B-B SHOWN WITH CPA (WHEN APPLICABLE) IN IT'S LATCHED POSITION FOR REFERENCE ONLY



SECTION B-B

KEYING CONFIGURATIONS	TERMINAL CAVITY CONFIGURATIONS
KEYING OPTION A	ALL TERMINAL CAVITIES OPEN
KEYING OPTION B	TERMINAL CAVITY #3 CLOSED
KEYING OPTION C	TERMINAL CAVITY #2 CLOSED
KEYING OPTION D	TERMINAL CAVITY #1 CLOSED

MAX TEMP	FEMALE TERMINAL PN	TERMINAL PLATING	AWG	APPLICABLE WIRE FINISHED O.D.	W.C.H.	W.C.W.	I.C.D.	WIRE SEAL PART NUMBER
125C	1670146-1	TIN	20	1.40 - 1.90mm	0.84 ± 0.03	1.57 ± 0.05	3.25 ± 0.05	967067-1
125C	1670146-2	GOLD	20	1.40 - 1.90mm	0.84 ± 0.03	1.57 ± 0.05	3.25 ± 0.05	967067-1
125C	1670146-3	SILVER	20	1.40 - 1.90mm	0.84 ± 0.03	1.57 ± 0.05	3.25 ± 0.05	967067-1
125C	1418850-1	TIN	18	1.90 - 2.40mm	1.11 ± 0.05	1.78 ± 0.05	3.35 ± 0.05	964972-1
125C	1418850-1	TIN	16	1.90 - 2.40mm	1.31 ± 0.05	1.78 ± 0.05	3.35 ± 0.05	964972-1
125C	1418850-2	GOLD	18	1.90 - 2.40mm	1.11 ± 0.05	1.78 ± 0.05	3.35 ± 0.05	964972-1
125C	1418850-2	GOLD	16	1.90 - 2.40mm	1.31 ± 0.05	1.78 ± 0.05	3.35 ± 0.05	964972-1
125C	1418850-3	SILVER	18	1.90 - 2.40mm	1.11 ± 0.05	1.78 ± 0.05	3.35 ± 0.05	964972-1
125C	1418850-3	SILVER	16	1.90 - 2.40mm	1.31 ± 0.05	1.78 ± 0.05	3.35 ± 0.05	964972-1
150C	1670146-2	GOLD	20	1.40 - 1.90mm	0.84 ± 0.03	1.57 ± 0.05		2098582-1
150C	1670146-3	SILVER	20	1.40 - 1.90mm	0.84 ± 0.03	1.57 ± 0.05		2098582-1
150C	1418850-2	GOLD	18	1.40 - 1.90mm	1.11 ± 0.05	1.78 ± 0.05		2098582-1
150C	1418850-2	GOLD	16	1.40 - 1.90mm	1.31 ± 0.05	1.78 ± 0.05		2098582-1
150C	1418850-3	SILVER	18	1.40 - 1.90mm	1.11 ± 0.05	1.78 ± 0.05		2098582-1
150C	1418850-3	SILVER	16	1.40 - 1.90mm	1.31 ± 0.05	1.78 ± 0.05		2098582-1

STATUS	CPA	INNER HOUSING	TERMINAL CAVITY CONFIGURATION	PART NUMBER			
RELEASED	2138907-1	BROWN	D	0	0	0	4-2272004-4
RELEASED	2138907-1	BROWN	C	0	0	0	4-2272004-3
RELEASED	2138907-1	BROWN	B	0	0	0	4-2272004-2
RELEASED	2138907-1	BROWN	A	0	0	0	4-2272004-1
PRELIMINARY	1488787-1	BROWN	D				3-2272004-2
PRELIMINARY	1488787-1	BROWN	C	X	0	0	3-2272004-1
PRELIMINARY	1488787-1	BROWN	B				3-2272004-0
PRELIMINARY	1488787-1	BROWN	A				2-2272004-9
PRELIMINARY	N/A	BROWN	D				2-2272004-8
PRELIMINARY	N/A	BROWN	C	X	0	0	2-2272004-7
PRELIMINARY	N/A	BROWN	B				2-2272004-6
PRELIMINARY	N/A	BROWN	A				2-2272004-5
PRELIMINARY	1488787-1	BROWN	D				2-2272004-4
PRELIMINARY	1488787-1	BROWN	C	0	X	0	2-2272004-3
PRELIMINARY	1488787-1	BROWN	B				2-2272004-2
PRELIMINARY	1488787-1	BROWN	A				2-2272004-1
PRELIMINARY	N/A	BROWN	D				2-2272004-0
PRELIMINARY	N/A	BROWN	C	0	X	0	1-2272004-9
PRELIMINARY	N/A	BROWN	B				1-2272004-8
PRELIMINARY	N/A	BROWN	A				1-2272004-7
PRELIMINARY	1488787-1	BROWN	D				1-2272004-6
PRELIMINARY	1488787-1	BROWN	C	0	0	X	1-2272004-5
PRELIMINARY	1488787-1	BROWN	B				1-2272004-4
PRELIMINARY	1488787-1	BROWN	A				1-2272004-3
PRELIMINARY	N/A	BROWN	D				1-2272004-2
PRELIMINARY	N/A	BROWN	C	0	0	X	1-2272004-1
PRELIMINARY	N/A	BROWN	B				1-2272004-0
PRELIMINARY	N/A	BROWN	A				2272004-9
PRELIMINARY	1488787-1	BROWN	D				2272004-8
PRELIMINARY	1488787-1	BROWN	C	0	0	0	2272004-7
PRELIMINARY	1488787-1	BROWN	B				2272004-6
PRELIMINARY	1488787-1	BROWN	A				2272004-5
RELEASED	N/A	BROWN	D				2272004-4
RELEASED	N/A	BROWN	C				2272004-3
RELEASED	N/A	BROWN	B	0	0	0	2272004-2
RELEASED	N/A	BROWN	A				2272004-1

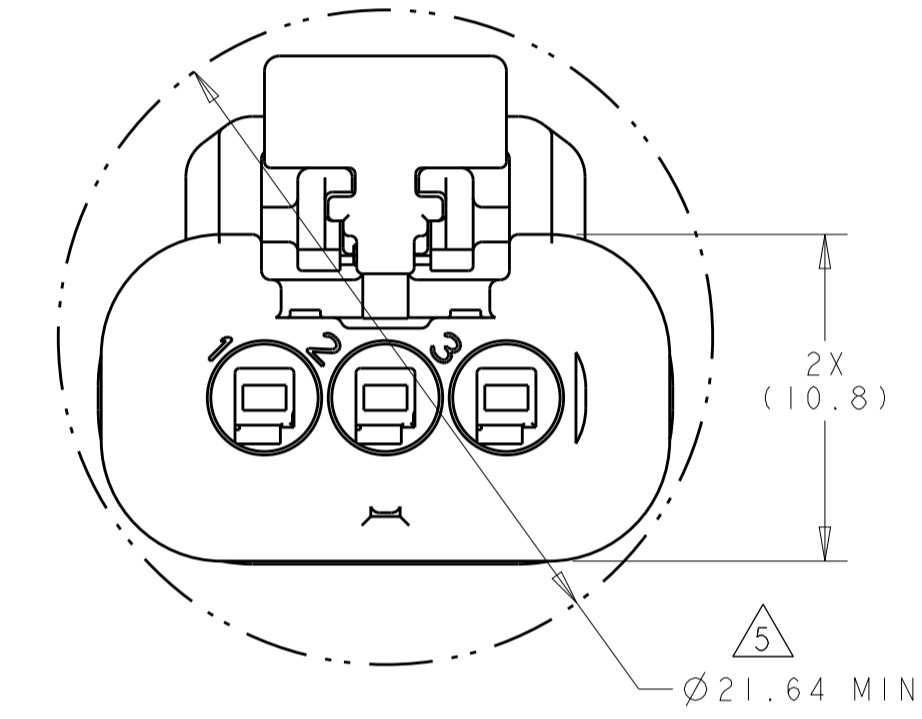
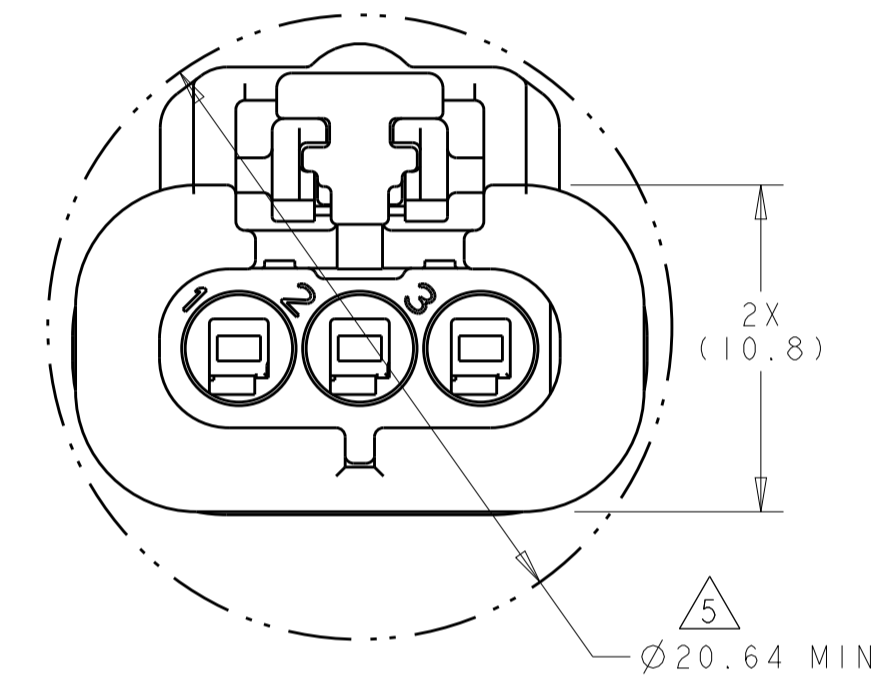
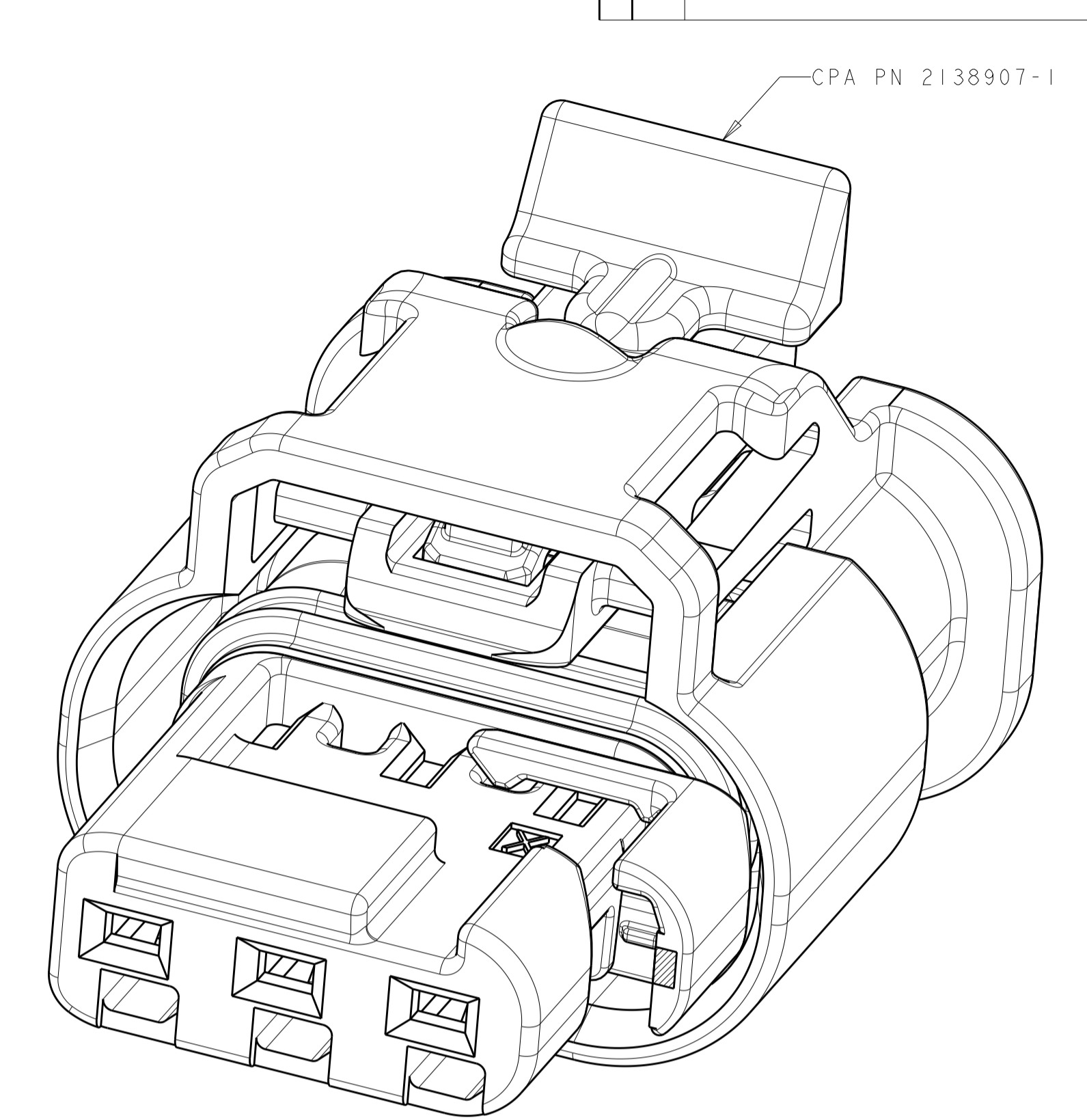
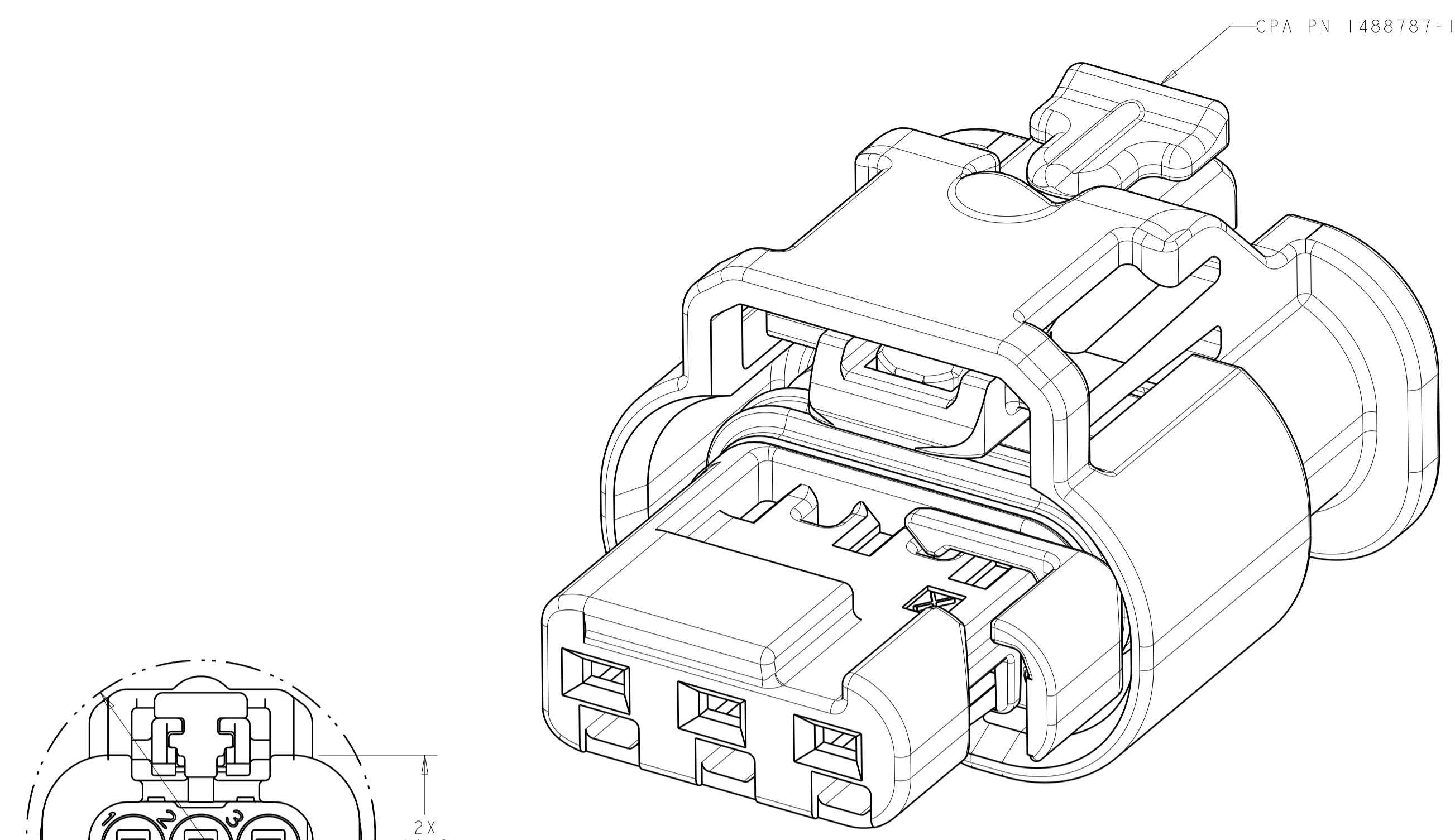
THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONS: mm. TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.3, 1 PLC ±0.10, 2 PLC ±0.15, 3 PLC ±0.2, 4 PLC ±0.25, ANGLES ±0.1°. MATERIAL: SEE TABLE. FINISH: SEE TABLE.

OWN: D. DRUMMOND, CH: S. MANKARYOS, APVD: S. MANKARYOS. DATE: 12NOV2013. NAME: S. MANKARYOS. PRODUCT SPEC: APPLICATION SPEC IS 408-8928. WEIGHT: 3.0 GRAMS. RESTRICTED CUSTOMER.

TE Connectivity. CONNECTOR ASSEMBLY, FEMALE, 3 POSITION SEALED, 1.2mm STANDARD LATCH VERSION, CLASS 4. SCALE: 4:1. SHEET 1 OF 2. REV A.

REVISIONS					
P.	LTM	DESCRIPTION	DATE	OWN	APVD
-	-	SEE SHEET 1	-	-	-

ISOMETRIC VIEWS

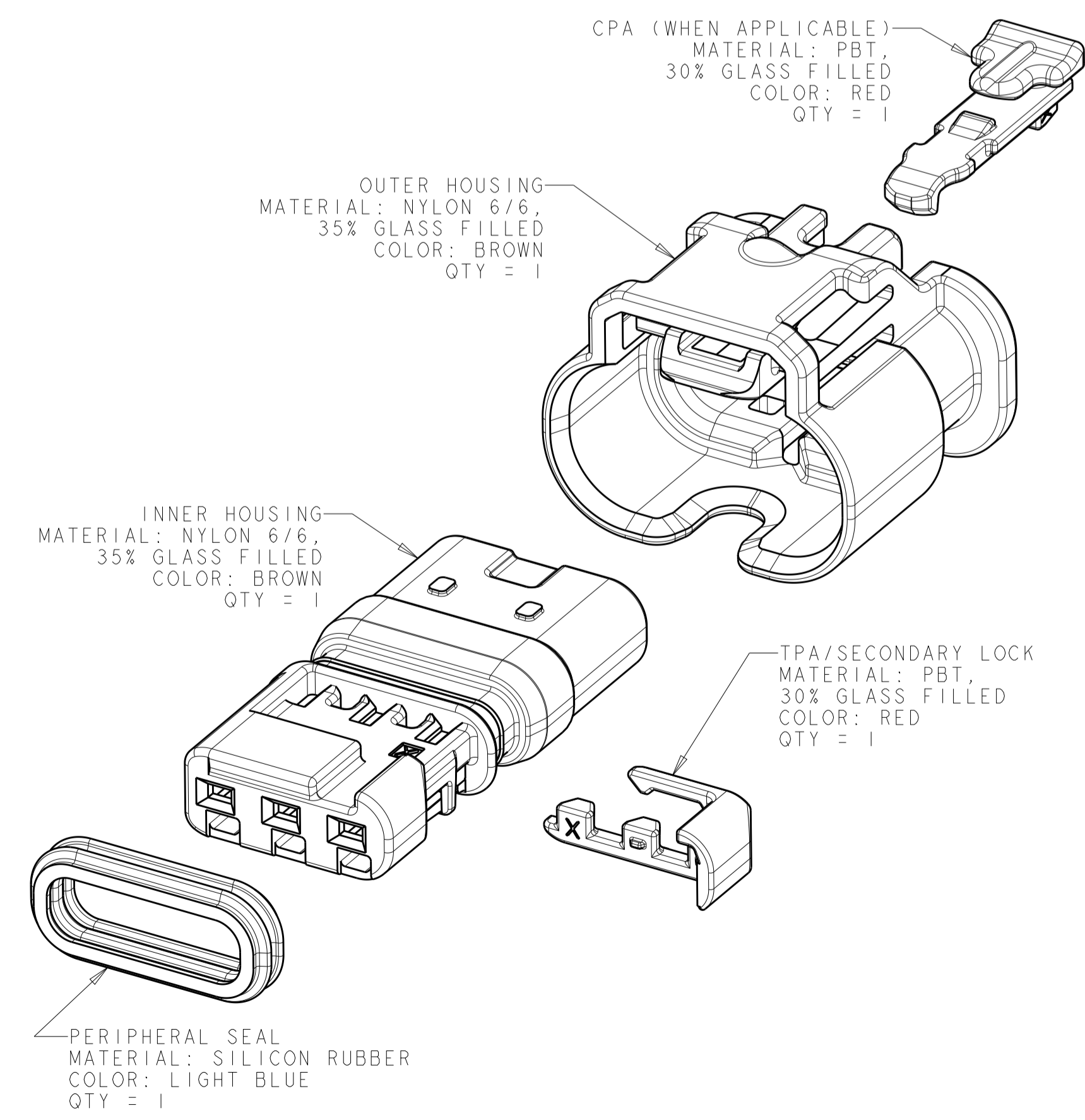


PN 2272004-5 SHOWN  
SCALE 8:1

PN 4-2272004-1 SHOWN  
SCALE 8:1

FEED THROUGH CONDITION

FEED THROUGH CONDITION



CPA (WHEN APPLICABLE)  
MATERIAL: PBT,  
30% GLASS FILLED  
COLOR: RED  
QTY = 1

OUTER HOUSING  
MATERIAL: NYLON 6/6,  
35% GLASS FILLED  
COLOR: BROWN  
QTY = 1

INNER HOUSING  
MATERIAL: NYLON 6/6,  
35% GLASS FILLED  
COLOR: BROWN  
QTY = 1

TPA/SECONDARY LOCK  
MATERIAL: PBT,  
30% GLASS FILLED  
COLOR: RED  
QTY = 1

PERIPHERAL SEAL  
MATERIAL: SILICON RUBBER  
COLOR: LIGHT BLUE  
QTY = 1

EXPLODED ISOMETRIC VIEW

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: D. DRUMMOND 12NOV2013	
DIMENSIONS: mm		CHK: S. MANKARYOS 12NOV2013	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: S. MANKARYOS 12NOV2013	NAME: CONNECTOR ASSEMBLY, FEMALE, 3 POSITION SEALED, 1.2mm STANDARD LATCH VERSION, CLASS 4
0 PLC	±	PRODUCT SPEC	SIZE: CAGE CODE DRAWING NO
1 PLC	±0.3	APPLICATION SPEC	RESTRICTED TO
2 PLC	±0.10	IS 408-8928	SCALE: 4:1
3 PLC	±	WEIGHT: 3.0 GRAMS	SHEET: 2 OF 2
4 PLC	±	RESTRICTED CUSTOMER	REV: A
ANGLES	±1°		
MATERIAL			
SEE TABLE			



## **Section 2**

# **Engineering Change Documents**



## Product Change Notification

Current Date: 09-Oct-2019

## TE Connectivity

Product Change Notification: P-19-018058

PCN Date: 08-OCT-19

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

## General Product Description:

Multiple Part numbers. Phase 1. Americas Footprint Optimization

## Description of Changes

We hereby inform you about a transfer of tools and/or processes to further improve our Supply Chain towards our customers. The transfer follows a strict procedure, which fully maintains quality, ability to supply and form-fit-function of the concerned products. The receiving manufacturing location operates under a certified quality management system in accordance with standard automotive requirements. These moves will be validated not to affect product fit, form and function, tool geometry, quality performance or the quality management system TE will uphold our responsibility to internally validate and approve these tools among appropriate first article dimensional and capability analysis, comparative 2-sample T-tests before and after moves, before and after CT scans where needed, and PV testing as defined by TE product engineering. TE is willing to provide any such validation data to our customers as our joint non-disclosure agreement statuses allow.

## Reason for Changes:

These changes are part of an overall effort from TE to improve our supply chain toward our customers, to focus each plant on core products and processes, and to provide an overall better experience from TE to our customer base. A TE-internal release test based on the relevant part specifications will be executed before delivery and this notification serves to fulfill our notification requirements as prescribed by AIAG 4th edition. This change notification document accompanies a letter sent to your organization on September 13, 2019 signed by our Vice President of Sales and Marketing. Follow up conversations can occur upon request with your sales contact within 14 calendar days after receipt of this PCN. TE can share validation data with your organization upon request. If you have any questions or needs from this move, please contact your sales engineer within 15 days of receipt of this letter.

## Estimated Dates:

Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):
	31-DEC-2019
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	No Mixed Shipments

## Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1-1419168-1</a>	NO		"V23542-G1506-D101"			
<a href="#">1-1419168-2</a>	NO		"V23542-G1506-D102"			
<a href="#">1-1419168-3</a>	NO		"V23542-G1506-D103"			
<a href="#">1-1419168-5</a>	NO					
<a href="#">1-1438153-1</a>	NO					
<a href="#">1-1438153-2</a>	NO					
<a href="#">1-1438153-3</a>	NO					
<a href="#">1-1438153-4</a>	NO					
<a href="#">1-1438153-5</a>	NO					
<a href="#">1-1438153-6</a>	NO					
<a href="#">1-1438153-7</a>	NO					
<a href="#">1-1438153-8</a>	NO					
<a href="#">1-1456426-1</a>	NO					
<a href="#">1-1456426-2</a>	NO					
<a href="#">1-1456426-5</a>	NO					
<a href="#">1-1456426-6</a>	NO					
<a href="#">1-1456985-0</a>	NO					
<a href="#">1-1670915-1</a>	NO					
<a href="#">1-1670916-1</a>	NO					
<a href="#">1-1670917-1</a>	NO					
<a href="#">1-1718643-1</a>	NO		"EG9733-000", "AMP-1-1718643-1"			
<a href="#">1-1718643-3</a>	NO					
<a href="#">1-1718644-1</a>	NO					
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<a href="#">1-1718888-1</a>	NO					
<a href="#">1-1823608-1</a>	NO					
<a href="#">1-1823608-4</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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<a href="#">1-1924067-4</a>	NO					
<a href="#">1-1924067-5</a>	NO					
<a href="#">1-1924067-6</a>	NO					
<a href="#">1-1924067-9</a>	NO					
<a href="#">1-2141523-4</a>	NO					
<a href="#">1-2203138-1</a>	NO					
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<a href="#">1326942-7</a>	NO					
<a href="#">1419168-7</a>	NO		"V23542-G1506-A101"			
<a href="#">1438153-1</a>	NO					
<a href="#">1438153-4</a>	NO					
<a href="#">1438153-5</a>	NO					
<a href="#">1438153-6</a>	NO					
<a href="#">1438153-8</a>	NO					



Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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<a href="#">1456983-2</a>	NO					
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<a href="#">1456983-4</a>	NO					
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<a href="#">2138042-6</a>	NO					
<a href="#">2203109-1</a>	NO					
<a href="#">2203109-2</a>	NO					
<a href="#">2203109-6</a>	NO					
<a href="#">2203109-7</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">2203332-1</a>	NO					
<a href="#">2203663-5</a>	NO					
<a href="#">2203663-6</a>	NO					
<a href="#">2203663-7</a>	NO					
<a href="#">2203769-1</a>	NO					
<a href="#">2203771-1</a>	NO					
<a href="#">2203773-1</a>	NO					
<a href="#">2203773-2</a>	NO					
<a href="#">2203773-7</a>	NO					
<a href="#">2296694-1</a>	NO					
<a href="#">2296694-2</a>	NO					
<a href="#">2296695-1</a>	NO					
<a href="#">2296695-2</a>	NO					
<a href="#">2296695-4</a>	NO					
<a href="#">2296698-1</a>	NO					
<a href="#">2296698-2</a>	NO					
<a href="#">2296700-3</a>	NO					
<a href="#">2296700-6</a>	NO					
<a href="#">2296702-1</a>	NO					
<a href="#">2300498-1</a>	NO					
<a href="#">2300498-2</a>	NO					
<a href="#">2300498-6</a>	NO					
<a href="#">2300498-7</a>	NO					
<a href="#">2304514-1</a>	NO					
<a href="#">2304514-2</a>	NO					
<a href="#">3-2203663-1</a>	NO					
<a href="#">3-2203663-3</a>	NO					
<a href="#">3-2203663-5</a>	NO					
<a href="#">4-1456426-1</a>	NO					
<a href="#">4-1456426-2</a>	NO					
<a href="#">4-1488991-1</a>	NO					
<a href="#">4-1488991-2</a>	NO					
<a href="#">4-1924067-1</a>	NO					
<a href="#">4-1924067-2</a>	NO					
<a href="#">4-2098541-1</a>	NO					
<a href="#">4-2098541-2</a>	NO					
<a href="#">4-2098557-1</a>	NO					
<a href="#">4-2098641-1</a>	NO					
<a href="#">4-2098641-2</a>	NO					
<a href="#">4-2203663-4</a>	NO					
<a href="#">4-2203663-5</a>	NO					
<a href="#">4-2203663-6</a>	NO					
<a href="#">4-2272003-1</a>	NO					
<a href="#">4-2272003-2</a>	NO					
<a href="#">4-2272003-3</a>	NO					
<a href="#">4-2272003-4</a>	NO					
<a href="#">4-2272003-5</a>	NO					
<a href="#">4-2272004-1</a>	NO					
<a href="#">4-2272004-2</a>	NO					
<a href="#">4-2272005-1</a>	NO					
<a href="#">4-2272005-2</a>	NO					
<a href="#">5-2203663-3</a>	NO					
<a href="#">5-2203663-7</a>	NO					
<a href="#">6-2203663-6</a>	NO					
<a href="#">6-2203663-7</a>	NO					
<a href="#">6-2203663-8</a>	NO					
<a href="#">828904-1</a>	NO		"CF0547-000", "AMP-0-0828904-1", "80.264.00", "8202609390", "8202611101"			
<a href="#">828904-2</a>	NO					
<a href="#">828922-1</a>	NO		"EG9737-000", "AMP-0-0828922-1", "80.263.00", "820A-37376"			
<a href="#">963530-1</a>	NO		"1072609867", "820P-37717", "820P-37904", "43119-000"			
<a href="#">963531-1</a>	NO		"1072607258"			
<a href="#">964972-1</a>	NO					
<a href="#">967067-1</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
			"0-0967067-1", "EG9740-000", "AMP-0-0967067-1"			
<a href="#">967067-2</a>	NO					



## **Section 3**

# **Customer Engineering Approval**



**Not Applicable**



# Section 4

## Design FMEA

**See Section A for nondisclosure conditions.  
The Design FMEA, if included, is a Class II confidential document  
belonging to TE Connectivity. A class II document may not be  
further distributed and is subject to the conditions of the  
nondisclosure agreement.**



## **Section 5**

# **Process Flow Diagram**

**See Section A for nondisclosure conditions.**

**The Process Flow Diagram, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.**



## **Section 6**

# **Process FMEA**

**See Section A for nondisclosure conditions.**

**The Process FMEA, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.**





## **Section 7**

# **Control Plan**

**See Section A for nondisclosure conditions.  
The Control Plan, if included, is a Class II confidential document  
belonging to TE Connectivity. A class II document may not be  
further distributed and is subject to the conditions of the  
nondisclosure agreement.**



## **Section 8**

# **Measurement System Analysis**



# DATA - GRR ATTRIBUTE STUDY

Empalme Site

DATE:	24-Mar-20
REQUEST:	Eduardo Duarte
QUALITY ENGINEER:	Aldo Carlos
MANUFACTURE ENGINEER	Jesus Morales
PLANT:	Plant 2
SPC TECHNICIAN:	Rubice Coria
PART NUMBER:	4-2272004-1
COMMENT General:	Sistema de Vision

Work Center:	AA-8915
NUM. Gage-Fixture	49658517
OPERATOR 1	-OPERATOR 1
OPERATOR 2	-OPERATOR 2
OPERATOR 3	-OPERATOR 3
Standard Record	2020-0505

Known Population				-OPERATOR 1			Expert	-OPERATOR 2			Expert	-OPERATOR 3			Expert	OPER VS OPER	OPER VS SAMPLE
# ID	Num Sample	DETAILS	Standard	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Agree	Agree
1	3	IINER HOUSING COLOR INCORRECTO(NEGR	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
2	2	IINER HOUSING COLOR INCORRECTO(NATUR	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
3	21	CPA INCORRECTO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
4	1	PIEZA BUENA	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
5	22	CPA MAL ENSAMBLADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
6	1	PIEZA BUENA	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
7	3	IINER HOUSING COLOR INCORRECTO(NEGR	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
8	11	LIGA ALTA DE UN LADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
9	10	LIGA FUERA DE POSICION	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
10	1	PIEZA BUENA	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
11	24	SIN CPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
12	16	TPA CERRADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
13	17	TPA DAÑADO LADO IZQUIERDO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
14	1	PIEZA BUENA	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
15	19	OUTER HOUSING MAL ENSAMBLADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
16	18	TPA DAÑADO LADO DERECHO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
17	21	CPA INCORRECTO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
18	20	OUTER HOUSING EQUIVOCADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
19	15	FALTANTE DE TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
20	1	PIEZA BUENA	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
21	22	CPA MAL ENSAMBLADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
22	23	CPA EQUIVOCADO COLOR	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
23	1	PIEZA BUENA	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
24	2	IINER HOUSING COLOR INCORRECTO(NATUR	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
25	14	LIGA DOBLE	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
26	12	LIGA INVERTIDA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
27	5	IINER HOUSING COLOR INCORRECTO(GRIS)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
28	19	OUTER HOUSING MAL ENSAMBLADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
29	1	PIEZA BUENA	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
30	8	LIGA COLOR INCORRECTO (VERDE)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
31	6	IINER HOUSING COLOR INCORRECTO(LLAVE	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
32	7	FALTANTE DE LIGA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
33	11	LIGA ALTA DE UN LADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
34	12	LIGA INVERTIDA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
35	9	LIGA COLOR INCORRECTO (NEGRA)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
36	13	LIGA TORCIDA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK



# DATA - GRR ATTRIBUTE STUDY

*Empalme Site*

DATE:	24-Mar-20
REQUEST:	Eduardo Duarte
QUALITY ENGINEER:	Aldo Carlos
MANUFACTURE ENGINEER	Jesus Morales
PLANT:	Plant 2
SPC TECHNICIAN:	Rubiel Coria
PART NUMBER:	4-2272004-1
COMMENT General:	Sistema de Vision

Work Center:	AA-8915
NUM. Gage-Fixture	49658517
OPERATOR 1	-OPERATOR 1
OPERATOR 2	-OPERATOR 2
OPERATOR 3	-OPERATOR 3
Standard Record	2020-0505

Known Population				-OPERATOR 1			Expert	-OPERATOR 2			Expert	-OPERATOR 3			Expert	OPER VS OPER	OPER VS SAMPLE
# ID	Num Sample	DETAILS	Standard	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Agree	Agree
37	14	LIGA DOBLE	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
38	4	IINER HOUSING COLOR INCORRECTO(AZUL)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
39	6	IINER HOUSING COLOR INCORRECTO(LLAVE)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
40	16	TPA CERRADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
41	5	IINER HOUSING COLOR INCORRECTO(GRIS)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
42	18	TPA DAÑADO LADO DERECHO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
43	20	OUTER HOUSING EQUIVOCADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
44	23	CPA EQUIVOCADO COLOR	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
45	11	LIGA ALTA DE UN LADO	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
46	24	SIN CPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
47	15	FALTANTE DE TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
48	8	LIGA COLOR INCORRECTO (VERDE)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
49	9	LIGA COLOR INCORRECTO (NEGRA)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
50	13	LIGA TORCIDA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK

Final comments of the study:

SPC Technician: Must be sent to answer to request, quality engineer and manufacture engineer.



# REPORT GRR ATTRIBUTE

DATE	24-Mar-20	ID - EQUIPMENT
STANDAR RECORD	2020-0505	49658517
Work Center:	AA-8915	
RESULT	ACCEPTED	

Operators

Inspected total

# Agreement

95% UCL

Calculated Score

95% LCL

% OPER VS OPER			% OPER VS SAMPLE		
-	-	-	-	-	-
OPERATO	OPERATOR	OPERATO	OPERATO	OPERATOR	OPERATO
R 1	2	R 3	R 1	2	R 3
50	50	50	50	50	50
50	50	50	50	50	50
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
94.18%	94.18%	94.18%	94.18%	94.18%	94.18%

Total Inspected

# coincidencias

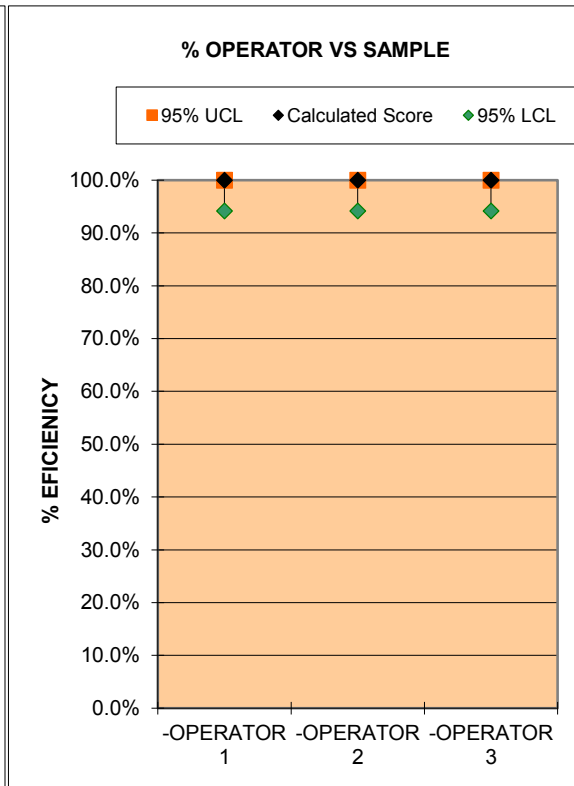
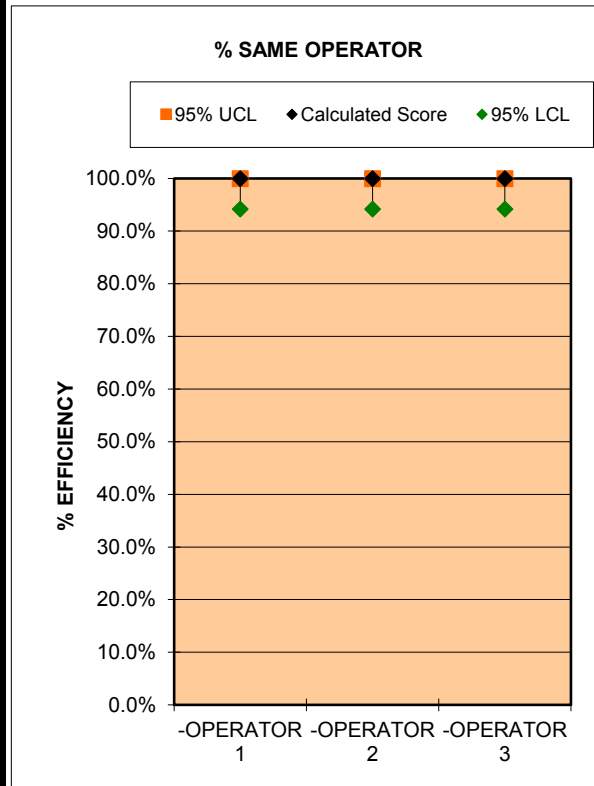
95% UCL

Calculated Score

95% LCL

Screen % Effective Score
50
50
100.0%
<b>100.0%</b>
94.18%

Screen % Effective Score vs Standard
50
50
100.0%
<b>100.0%</b>
94.18%



# Section 9

# Dimensional Results



# Production Part Approval DIMENSIONAL TEST RESULTS



TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

Organization: TE Connectivity	Part Number: 4-2272004-1
Supplier/Vendor Code: N/A	Part Name: CONNECTOR ASSEMBLY, FEMALE, 3 POSITION, SEALED, 1.2mm STANDARD LATCH VERSION CLASS4
INSPECTION FACILITY: TE Connectivity Empalme Metrology lab	Design Record Change Level: DWG: C-2272004 REV: A Engineering Change Documents: N/A # Folio: 50344 Page <u>1</u> of <u>3</u>

Item	Dim./Spec.	Spec. / Limits tol + tol -	Units	Organization Measurement Results (Data)						Ok	Not Ok	Instrument # ID
				SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6			
1	26.5	REFERENCE	mm.	26.535	26.528	26.517	26.526	26.530	26.537	✓		LMMC-007
2	15.6	REFERENCE	mm.	14.676	15.514	15.512	15.675	15.693	15.677	✓		LMMC-007
3	14.8	REFERENCE	mm.	14.828	14.848	14.876	15.031	15.029	15.057	✓		LMMC-007
4	4	REFERENCE	mm.	4.005	3.992	3.999	3.967	4.037	3.986	✓		LMMC-007
5	4	REFERENCE	mm.	3.957	3.988	4.002	3.994	3.953	3.967	✓		LMMC-007
6	18.8	REFERENCE	mm.	18.992	19.037	18.922	18.960	18.890	19.063	✓		LMMC-007
7	14.6	REFERENCE	mm.	14.990	14.553	14.550	14.425	14.588	14.511	✓		LMMC-007
8	19	REFERENCE	mm.	19.296	19.287	19.277	19.280	19.159	19.288	✓		LMMC-007
9	12.6	REFERENCE	mm.	12.663	12.616	12.611	12.602	12.663	12.623	✓		LMMC-007
10	10.8	REFERENCE	mm.	10.801	10.805	10.805	10.810	10.815	10.794	✓		LMMC-007
	10.8	REFERENCE	mm.	10.793	10.794	10.801	10.797	10.801	10.778	✓		
11	20.64	MINIMUM	mm.	OK	OK	OK	OK	OK	OK	✓		LMMC-007
12	PERIPHERAL SEAL MATERIAL: SILICON RUBBER. COLOR: LIGHT BLUE. QTY: 1.		visual	OK	OK	OK	OK	OK	OK	✓		
13	TPA / SECONDARY LOCK MATERIAL: PBT, 30% GLASS FILLED. COLOR: RED. QTY: 1.		visual	OK	OK	OK	OK	OK	OK	✓		
14	INNER HOUSING MATERIAL: NYLON 6/6, 35% GLASS FILLED. COLOR: BROWN. QTY: 1.		visual	OK	OK	OK	OK	OK	OK	✓		
15	OUTER HOUSING MATERIAL: NYLON 6/6, 35% GLASS FILLED. COLOR: BROWN. QTY: 1.		visual	OK	OK	OK	OK	OK	OK	✓		
16	CPA (WHEN APPLICABLE) MATERIAL: PBT, 30% GLASS FILLED. COLOR: RED. QTY: 1.		visual	OK	OK	OK	OK	OK	OK	✓		
NOTES:												
1	PART NUMBER 2272004-5 SHOWN ON DRAWING.			OK	OK	OK	OK	OK	OK	✓		
2	TPA AND CPA ( WHEN APPLICABLE ) ARE SHIPPED IN THEIR PRE-LATCHED POSITIONS. SEE INSTRUCTION SHEET 408-8928 FOR DIRECTIONS ON MOVING THE CPA AND TPA TO THE PRE-LATCHED POSITION, IF NECESSARY.			visual	OK	OK	OK	OK	OK	✓		

March 2006 CFG-1003

AEF004J-EG Rev: J

SIGNATURE	TITLE Metrology Chief	DATE March 12, 2020
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Production Part Approval  
**DIMENSIONAL TEST RESULTS**



TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

Organization: TE Connectivity	Part Number: 4-2272004-1
Supplier/Vendor Code: N/A	Part Name: CONNECTOR ASSEMBLY, FEMALE, 3 POSITION, SEALED, 1.2mm STANDARD LATCH VERSION CLASS4
INSPECTION FACILITY: TE Connectivity Empalme Metrology lab	Design Record Change Level: DWG: C-2272004 REV: A
	Engineering Change Documents: N/A
	# Folio: 50344 Page 2 of 3

Item	Dim./Spec.	Spec. / Limits tol + tol -	Units	Organization Measurement Results (Data)						Ok	Not Ok	Instrument # ID
				SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6			
3	TERMINALS SOLD SEPARATELY, FOR USE WITH TE MCON 1.2 mm CLEAN BODY CONTACT WITH WIRE SEAL, SEE TE MCON 1.2-CB (CLEAN BODY ) TABLE FOR APPLICABLE PART NUMBERS.			NOTED PER APQP TEAM						✓		
4	APPLICABLE INTERFACE DRAWING: EWCAP 120-S-003-1-Z01 AND 120-S-003 -1-Z02.			NOTED PER APQP TEAM						✓		
5	MINIMUM FEED THROUGH CONDITION WITH 0.5mm CLEARANCE ALL AROUND.			OK	OK	OK	OK	OK	OK	✓		
6	A "X" IN THIS TABLE INDICATES THAT THE TERMINAL CAVITY IS BLOCKED AND WILL NOT ALLOW INSERTION OF THE MATING TERMINAL A "O" IN THIS TABLE INDICATES THAT THE TERMINAL CAVITY IS OPEN AND WILL ALLOW INSERTION OF THE MATING TERMINAL.		visual	OK	OK	OK	OK	OK	OK	✓		
7	TRACEABILITY PRINTED IN THIS LOCATION AT ASSEMBLY.		visual	OK	OK	OK	OK	OK	OK	✓		
8	ICD IS DEPENDENT UPON WIRE INSULATION TYPE AND OD. MUST BE SUFFICIENT TO GRIP SEAL SO IT DOES NOT SLIDE OUT OF INSULATION CRIMP WHEN INSERTING INTO CONEECTOR CAVITY BUT NO TEAR SEAL.			NOTED PER APQP TEAM						✓		
9	REFERENCE ISOMETRIC VIEWS ON SHEET 2.		visual	OK	OK	OK	OK	OK	OK	✓		

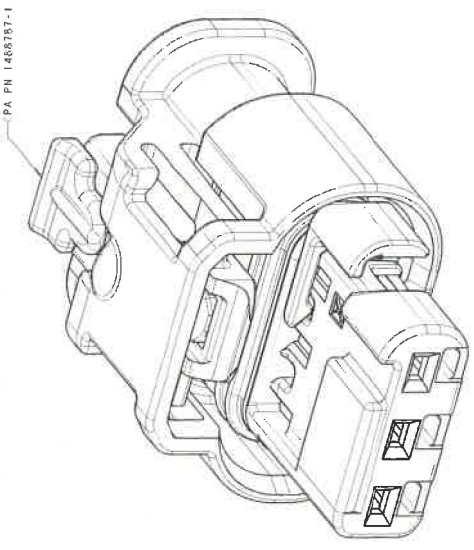
March 2006 CFG-1003	SIGNATURE Omar Sánchez	TITLE Metrology Chief	DATE March 12, 2020
---------------------	---------------------------	--------------------------	------------------------



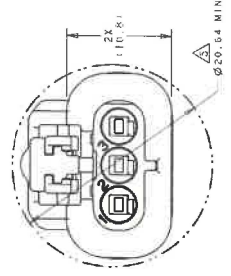




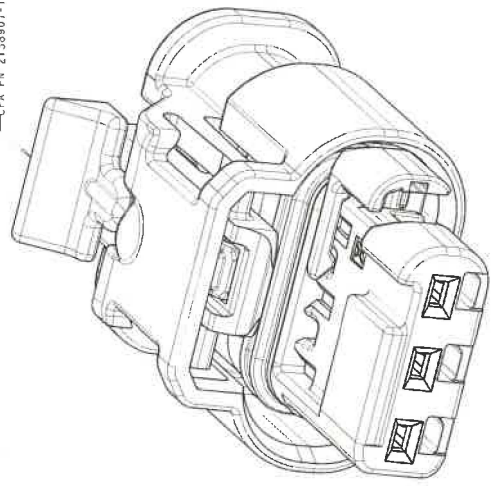
ISOMETRIC VIEWS



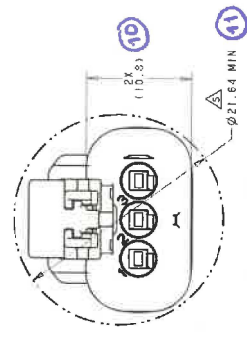
PN 2272004-5 SHOWN  
SCALE 8:1



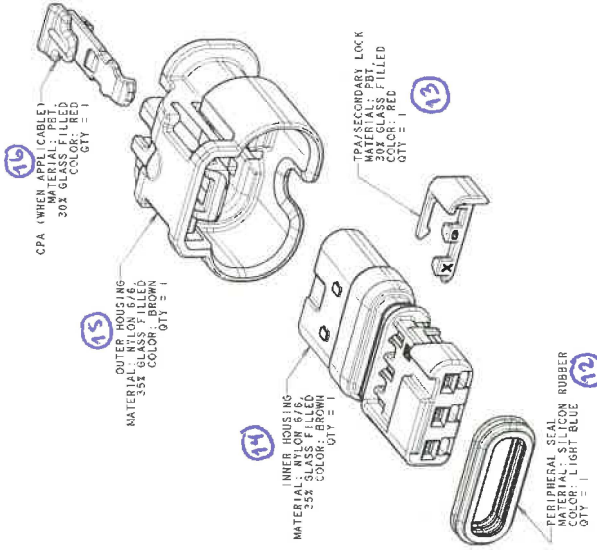
FEED THROUGH CONDITION



PN 4-2272004-1 SHOWN  
SCALE 8:1



FEED THROUGH CONDITION



EXPLODED ISOMETRIC VIEW

THIS DRAWING IS A CONTROLLED DOCUMENT.		REV.	DESCRIPTION	DATE
1	INITIALS	1	ISSUE FOR DESIGN	03/09/20
2	INITIALS	2	ISSUE FOR MANUFACTURE	03/09/20
3	INITIALS	3	ISSUE FOR REVISED DESIGN	03/09/20
4	INITIALS	4	ISSUE FOR REVISED MANUFACTURE	03/09/20
5	INITIALS	5	ISSUE FOR REVISED DESIGN	03/09/20
6	INITIALS	6	ISSUE FOR REVISED MANUFACTURE	03/09/20
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99	INITIALS	99	ISSUE FOR REVISED DESIGN	03/09/20
100	INITIALS	100	ISSUE FOR REVISED MANUFACTURE	03/09/20

CONNECTOR ASSEMBLY  
 FEMALE 3 POSITION SCALED  
 SCALED FOR POSITION CLASS  
 PART NUMBER: 4-2272004-1  
 DATE: 03/09/20  
 DRAWN BY: SAEEDI  
 CHECKED BY: SAEEDI  
 APPROVED BY: SAEEDI  
 REVISIONS: 1  
 SCALE: 8:1  
 SHEET: 1 OF 1  
 REV. A



## **Section 10**

# **Material, Performance Test Results**

Please note that the certificates of analysis are also conveniently available on your BASF online portal.

TE CONNECTIVITY HERMOSILLO

2020-02-04

BLVD INDUSTRIAL NORTE 23

BASF CORPORATION

83118 HERMOSILLO

SONORA

Mexico

Certificate No 10646

Page 1 of 2

**Inspection Certificate 3.1 according to EN 10204**

ULTRAMID® A3HG7 UNCOLORED  
POLYAMIDE  
726KG FIBREBOARD IBC  
Purchase Order/Customer Product#  
2710679026  
1573375-1

Material	57194936
Order	0117305999 000010
Delivery	0144196932 000010
Lot	WF9325092
Lot/Qty	12804.448 LB
Total	12804.448 LB
Transport	M-51/853EU9

Characteristic/Method	UOM	Result	Specification
Ash / Filler Content	%	34.89	33.00-37.00
ASTM5630/ISO3451			
Moisture Content	%	0.04	<=0.15
ASTM D6869 / ISO 15512B			
Viscosity Number for Polyamide ml/g		144	130-154
ISO 307			

Manufacturing Date: 11/21/2019

Results shown are the means of individual test values determined on samples taken during production of the lot specified.

This product is approved for the following specifications:

GMP.PA66.013  
GMW3038P-PA66-GF35H  
GMW16802P-PA66-GF35  
ASTM D6779 PA012G35  
N28 BN02-GF074

Please note: ASTM D4066 has been replaced by ASTM D6779 PA012G35

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

---

Please note that the certificates of analysis are also conveniently available on your BASF online portal.

TE CONNECTIVITY HERMOSILLO

2020-02-04

BLVD INDUSTRIAL NORTE 23

BASF CORPORATION

83118 HERMOSILLO

SONORA

Mexico

Certificate No 10646

Page 2 of 2

**Inspection Certificate 3.1 according to EN 10204**

ULTRAMID® A3HG7 UNCOLORED

POLYAMIDE

726KG FIBREBOARD IBC

Purchase Order/Customer Product#

2710679026

1573375-1

Material

57194936

Order

0117305999 000010

Delivery

0144196932 000010

Lot

WF9325092

Lot/Qty

12804.448 LB

Total

12804.448 LB

Transport

M-51/853EU9

---

THIS CERTIFICATE OF ANALYSIS HAS BEEN PRODUCED ELECTRONICALLY  
AND IS VALID WITHOUT A SIGNATURE.

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.



TYCO ELEC - AUTOMOTIVE  
 C/O ILS CROSSDOCK G12  
 8350 EAST OLD VAIL ROAD  
 TUSCON AZ 85747  
 USA

The Verst Group  
 Ticona Polymers  
 1100 Burlington Pike  
 FLORENCE KY 41042  
 USA

## Type 4 Certificate of Analysis

### CELANEX 4300 ES3801 RED Z7

<b>Customer Part No.:</b> 703395-4	<b>Cert Issue Date:</b> 30 Jan 2020
<b>Formula No.:</b> 4300	<b>Qty Shipped:</b> 1,653.000 LB
<b>Catalog:</b> 20000948	<b>Order Item /date:</b> 2243522 10 / 02 Dec 2019
<b>Color No.:</b> ES3801	<b>Delivery item/date:</b> 86446681 900001 / 10 Feb 2020
<b>Produced at:</b> Florence, KY, USA	<b>Account #:</b> 2065708
	<b>Customer PO No.:</b> 2710434910
	<b>Rail car:</b> See Senders Inst.

**Batch 0001263254**

In reference to the above, this is to advise you that this is a standard product and meets the following requirements:

SPECIFICATIONS: ASTM D5927 TPES 011G30

BATCH RELEASE DATA	UoM	Value	Limit
Melt Flow Rate (MFR) (ISO 1133-1, ASTM D1238)	g/10min	7.00	
Ash Content	%(m)	29.32	28.00 - 32.00

ANNUAL TESTS (REVISED ON)	UoM	Value	Limit
Density (27 Sep 2019)	g/cm <sup>3</sup>	1.530	1.500 - 1.590
Charpy Notched Impact Strength (27 Sep 2019)	kJ/m <sup>2</sup>	9.20	min. 6.00
DTUL @ 1.8MPa (27 Sep 2019)	°C	201.8	min. 190.0
Tensile modulus (27 Sep 2019)	MPa	9145	min. 7000
Tensile Stress at break (27 Sep 2019)	MPa	128.8	min. 85.0

INITIAL CHARACTERIZATION	UoM	Value	Limit
Flammability	mm/min	31.0	max. 100.0

**COMMENTS**

Flammability is performed on a 100x355x1mm plaque test specimen for characterization data only. Meets FMVSS302. This is a test coupon only and does not replace a molded component.

These test data are determined based on standard ISO and/or ASTM testing procedures.

Polyester Global Business Line

If you have questions regarding this letter, please call your Customer Service Team at 800-526-4960.

# Certificate of Analysis

**Certificate Type:**

Insp. certificate "3.1" EN  
10204

Date printed: JUN/13/2019

**TE CONNECTIVITY**

PO BOX 3608

Pennsylvania

17105-3608

HARRISBURG

USA

**Shipped from details:**

SABIC INNOVATIVE PLASTICS US LLC

1 LEXAN LN

47620-0000

MT. VERNON

USA

Material Number 22046634  
Material Description 430-6187-OCT-00-01-00  
Material Group VALOX™ resin  
Batch Number 0009886533  
Manufacturing Plant Mt. Vernon  
Manufacturing Date JAN/27/2019

Characteristic	Unit	Value	Lower Limit	Upper Limit	Inspection method
ASH CONTENT	%	32.1	31.0	37.0	ASTM D5630
METAL CONTAMINATION	-	Pass	-	-	SABIC
MFR 250°C @2.16KG	g/10mn	9.0	6.8	12.4	ASTM D1238

**General Note : This document is computer generated and does not require a signature**

**Contact information can be found on [www.SABIC.com](http://www.SABIC.com).**

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# **Section 11**

# **Initial Process Studies**



# Capability Study

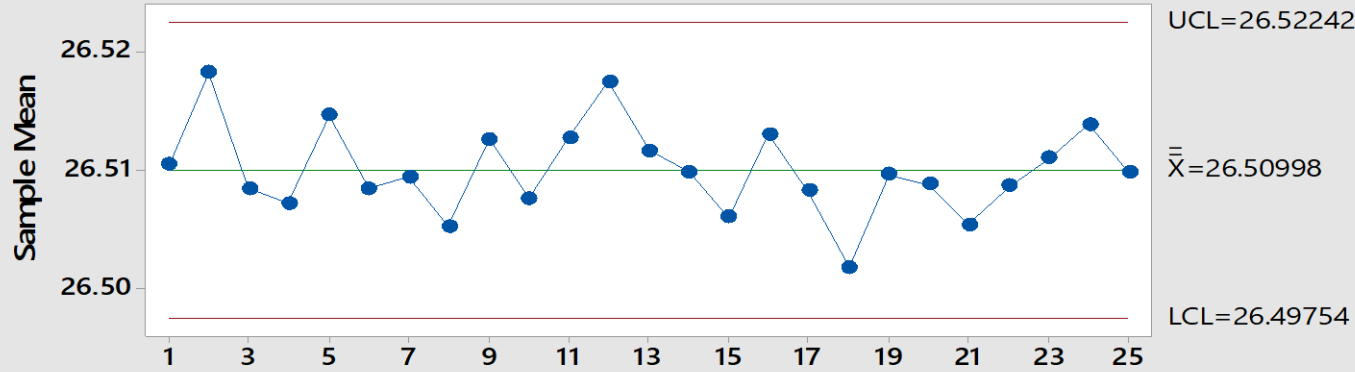
Part Number TE:	4-2272004-1	NP Customer:	4-2272004-1
Name NP:	CONNECTOR ASSEMBLY,FEMALE,3 POSITION SEALED,1.2mm,STANDARD LATCH VERSION CLASS 4		

Folio Metrologia:	50389
DATE:	March 17, 2020

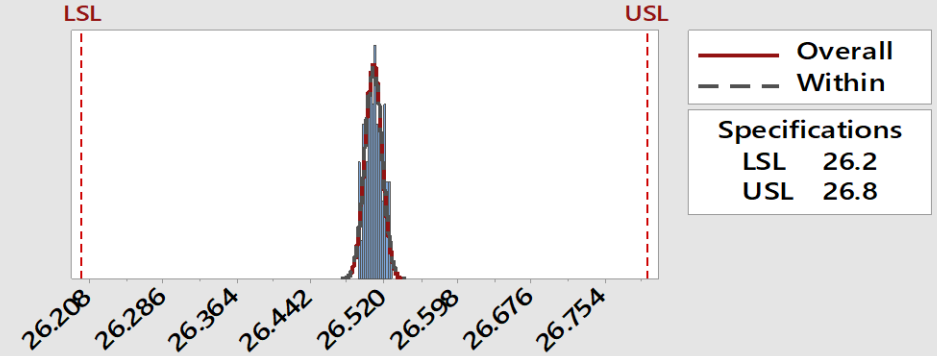
Standard Record:	2020-0495	Machine:	49658517	Nombre de la Estacion:	Ensamble Automatico		
Name Characteristic:	DISTANCIA			Work Center:	AA-8915	Units:	MM
Special Note / Comments:						Cpk	10.49

## Capability Study NP 4-2272004-1 Characteristics DIM 1 AA-8915 M-49658517

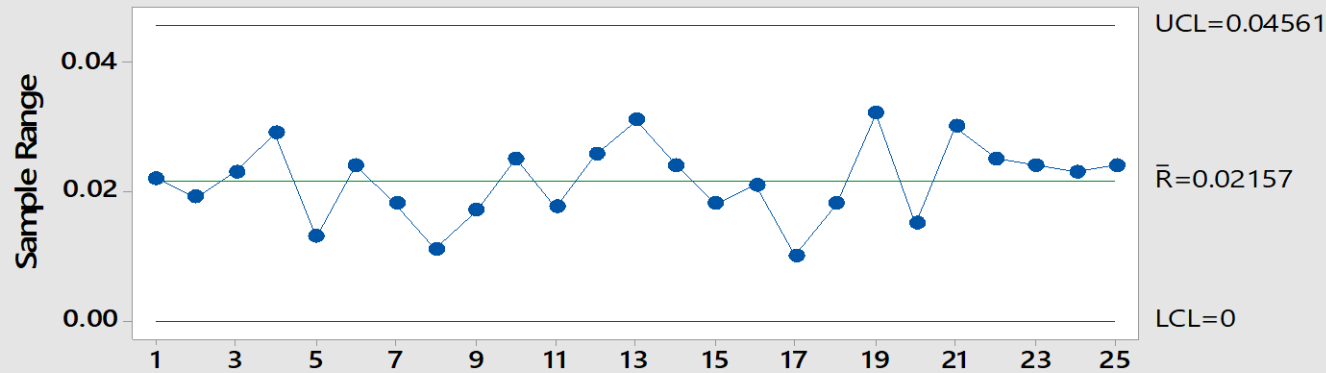
### Xbar Chart



### Capability Histogram

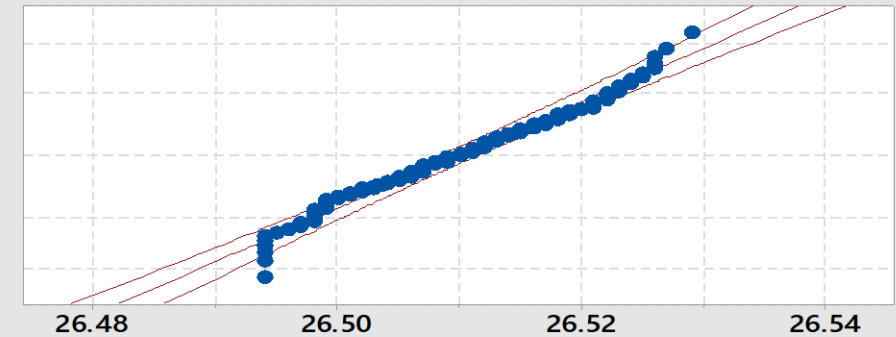


### R Chart

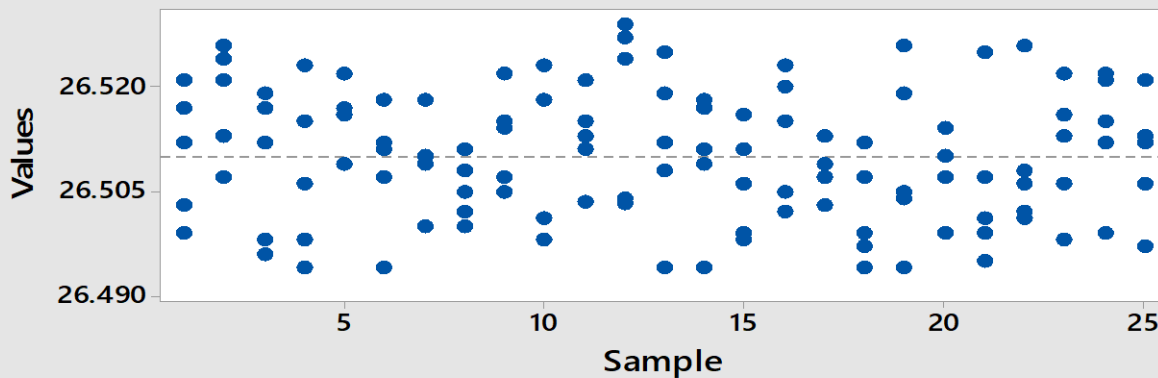


### Normal Prob Plot

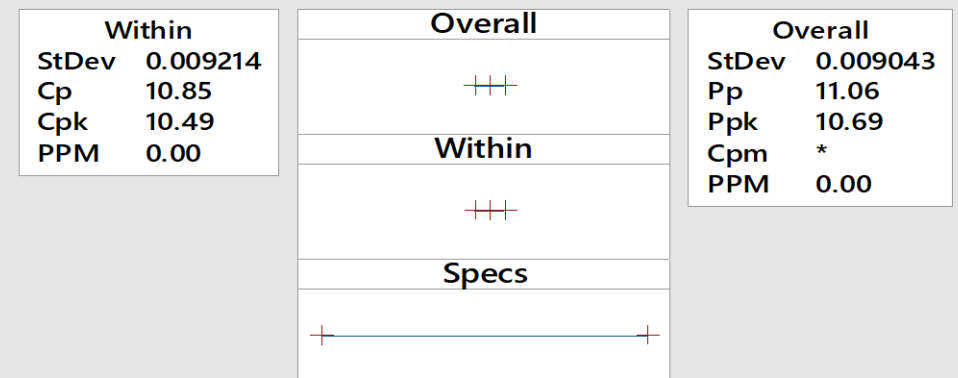
AD: 0.644, P: 0.091



### Last 25 Subgroups



### Capability Plot





## **Section 12**

# **Qualified Laboratory Documentation**

# Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that:

TE Connectivity  
Global Automotive Division  
Americas North  
Carretera Internacional, KM 1969  
Guadalajara-Nogales Km 2  
Empalme  
Sonora  
85340  
Mexico

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following scope:

Design and manufacture of electrical interconnecting devices.

For and on behalf of BSI:

  
Carlos Pitanga, Chief Operating Officer Assurance – Americas

BSI Certificate Number: 514458-003

IATF Number: 0315420



Certification Date: 2018-07-11

Latest Issue: 2018-07-11

Page: 1 of 2

...making excellence a habit.™

Expiry Date: 2021-07-10

This certificate remains the property of BSI and shall be returned immediately upon request.

An electronic certificate can be authenticated [online](http://www.bsigroup.com/ClientDirectory). Printed copies can be validated at [www.bsigroup.com/ClientDirectory](http://www.bsigroup.com/ClientDirectory)

To be read in conjunction with the scope above or the attached appendix.

Further clarifications regarding the scope of this certificate and the applicability of IATF 16949 requirements may be obtained by consulting the organization.

IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.

Location

TE Connectivity  
Global Automotive Division  
Americas North  
Carretera Internacional, KM 1969  
Guadalajara-Nogales Km 2  
Empalme  
Sonora  
85340  
Mexico

Registered Activities

Manufacture of interconnecting devices.

Including the following remote support functions:

TE Connectivity  
Global Automotive Division  
Americas North  
900 Wilshire Boulevard  
Suite 150  
Troy, MI 48084  
Design and Development.

TE Connectivity  
Global Automotive Division  
Americas North  
Fulling Mill Road  
Middletown, PA 17057  
Design and Development, Product Testing and Customer Service.

TE Connectivity  
Global Automotive Division  
Americas North  
3800 Reidsville Road  
Winston-Salem, NC 27102  
Design and Development, Product Testing and Calibration, Business Office (Quote Process) and Purchasing.

TE Connectivity  
Global Automotive Division  
Americas North  
20 Esna Park Drive  
Markham, Ontario  
L3R 1E1 Canada  
Design and Development and product testing (optics lab)

TE Connectivity  
Global Automotive Division  
Americas North  
2100 Paxton Street  
Harrisburg, PA 17111  
Provision of Product Testing to TE Connectivity Manufacturing Sites.

TE Connectivity North Carolina  
Distribution Center  
8000 Piedmont Triad Parkway  
Greensboro, North Carolina 27409  
Receiving Inspection, Storage / Inventory.

BSI Certificate Number: 514458-003

IATF Number: 0315420



Certification Date: 2018-07-11

Latest Issue: 2018-07-11

Expiry Date: 2021-07-10

Page: 2 of 2

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IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.



## **Section 13**

# **Appearance Approval Report**

**Not Applicable**



## **Section 14**

# **Sample Product**

**Sent in separate package  
(if required)**





# **Section 15**

# **Master Sample**

**Retained at manufacturing location**



# Section 16

# Checking Aids

**Not Applicable**



## **Section 17**

# **Records of Compliance with Customer-Specific Requirements**

# MDS Report

## Substances of assemblies and materials

This report is for internal Automotive industry use only. Distribution to non-Automotive clients is a violation of the Terms of Use, and is not permitted unless a written permission was given by DXC Technology. Parsing is not allowed.

### 1. Company and Product Name

#### 1.1 Supplier Data

Name [ID]: **Tyco Electronics GAD [913]**  
DUNS Number: **-**  
Street/Postal Code: **Amperestr. 12-14**  
Nat./ZipCode/City: **DE 64625 Bensheim**  
Supplier Code: **-**  
Contact Person: **IMDS Team (India) Engineering Services**  
- Phone: **-**  
- Fax No.: **-**  
- E-Mail Address: **imds@te.com**

#### 1.2 Product Identification

Part/Item No.: **4-2272004-1**  
Description: **Conn Assy, Female, 3 Posn, Sealed, 1.2mm, Standard Latch Version, Class 4**  
Report No.: **-**  
Date of Report: **-**  
Purchase Order No.: **-**  
Bill of Delivery No.: **-**  
Preliminary MDS: **No**  
IMDS ID / Version: **467298760 / 7**  
Node ID: **864760350**  
MDS Status (Change Date): **Internally released (09/19/2019)**

# MDS Report

## Substances of assemblies and materials

**Materials which are subject to legal prohibitions must not be included!**  
**Dangerous substances formed or released during use must also be declared**  
 Please note: GADSL list for substances that require declaration

### 2. Characterization of the Component

Part/Item No.: **4-2272004-1** Report No.: **-**  
 Description: **Conn Assy, Female, 3 Posn, Sealed, 1.2mm, Standard Latch Version, Class 4** IMDS ID / Version: **467298760 / 7**  
 Node ID: **864760350**

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
1	Conn Assy, Female, 3 Posn, Sealed, 1.2mm, Standard Latch Version, Class 4	4-2272004-1	467298760 / 7		3.213				
└2	Outer Housing, Standard Latch Placement, Female, 3 Position, Sealed, 1.2mm, Class 4-Brown	2098543-1	151755310 / 4	1	1.52				Yes

IMDS ID / Version:  
User:

**467298760 / 7**  
**Lara, Alejandra**

Page:  
Date:

**3 / 4**  
**3/27/20 4:55:23 PM**

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
└3	PA66-GF35	1573375-1	291430537 / 2		1.52			5.1.a	No
└4	Further Additives, not to declare	system				1			
└4	GF-Fibre	-				35			
└4	PA66	-				63.8			
└4	N,N'-Diphenyl-p-phenylenediamine	74-31-7				0.2	D		
└2	Inner Housing, Female, 3 Position, Sealed, 1.2mm, MCON, Class 4-Brown	2098545-1	151630035 / 4	1	1.337				Yes
└3	PA66-GF35	1573375-1	291430537 / 2		1.337			5.1.a	No
└4	Further Additives, not to declare	system				1			
└4	GF-Fibre	-				35			
└4	PA66	-				63.8			
└4	N,N'-Diphenyl-p-phenylenediamine	74-31-7				0.2	D		
└2	TPA, Female, 3 Posn, Sealed, 1.2mm - Red	1488996-1	16532266 / 17	1	0.072				Not Applicable
└3	PBT-GF30	703395-4	175341184 / 3		0.072			5.1.a	No
└4	PBT	-				69.25			
└4	GF-Fibre	-				30			
└4	Further Additives, not to declare	system				0.5			
└4	Pigment portion, not to declare	system				0.25			

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
└2	Perimeter Seal, 3 Posn, 1.2mm, Class 4	2098546-1	670847679 / 1	1	0.09				Not Applicable
└3	VMQ	A+B-Comp. with colorpaste			0.09			5.3	No
└4	VMQ		74360856 / 6			97.5	97 - 98	5.3	
└5	Silica, amorphous fumed	112945-52-5				26	21 - 31		
└5	VMQ	-				69			
└5	Siloxanes and silicones, di-Me, Me Ph	63148-52-7				5	4 - 6		
└4	VMQ Color Masterbatch		156840559 / 2			2.5	2 - 3	5.3	
└5	Pigment portion, not to declare	system				50	45 - 55		
└5	VMQ	-				50			
└2	CPA Connector Sealed System - Red	2138907-1	288435080 / 5	1	0.194				Not Applicable
└3	PBT-I-GF30	703147-3	618828087 / 2		0.194			5.1.a	No
└4	PBT-I	-				68.79845	65 - 75		
└4	GF-Fibre	-				28.79845	25 - 35		
└4	Pigment portion, not to declare	system				1.20155	0.1 - 3		
└4	Further Additives, not to declare	system				1.20155	0.1 - 3		

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# **Section 18**

# **Part Submission Warrant**

# Part Submission Warrant

Part Name \_\_\_\_\_ Cust. Part Number \_\_\_\_\_

Shown on Drawing Number \_\_\_\_\_ Org. Part Number \_\_\_\_\_

Engineering Change Level \_\_\_\_\_ Dated \_\_\_\_\_

Additional Engineering Changes \_\_\_\_\_ Dated \_\_\_\_\_

Safety and/or Government Regulation Yes No Purchase Order No. \_\_\_\_\_ Weight (kg) \_\_\_\_\_

Checking Aid Number \_\_\_\_\_ Checking Aid Engineering Change Level \_\_\_\_\_ Dated \_\_\_\_\_

## ORGANIZATION MANUFACTURING INFORMATION

## CUSTOMER SUBMITTAL INFORMATION

Organization Name and Supplier Code \_\_\_\_\_

Customer Name/Division \_\_\_\_\_

Street Address \_\_\_\_\_

Buyer/Buyer Code \_\_\_\_\_

City \_\_\_\_\_ Region \_\_\_\_\_ Postal Code \_\_\_\_\_ Country \_\_\_\_\_

Application \_\_\_\_\_

## MATERIALS REPORTING

Has customer-required Substance of Concern information been reported Yes No NA  
Submitted by IMDS or other customer format \_\_\_\_\_

Are polymeric parts identified with appropriate ISO marking codes? Yes No NA

## REASON FOR SUBMISSION (Check at least one)

Initial submission	Change to Optional Construction or Material
Engineering Change(s)	Sub-Supplier or Material Source Change
Tooling: Transfer, Replacement, Refurbishment, or additional	Change in Part Processing
Correction of Discrepancy	Parts Produced at Additional Location
Tooling Inactive > than 1 year	Other - please specify _____

## REQUESTED SUBMISSION LEVEL (Check one)

- Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.
- Level 2 - Warrant with product samples and limited supporting data submitted to customer.
- Level 3 - Warrant with product samples and complete supporting data submitted to customer.
- Level 4 - Warrant and other requirements as defined by customer.
- Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.

## SUBMISSION RESULTS

The results for dimensional measurement material and functional tests appearance criteria statistical process package  
These results meet all design record requirements: Yes No (If "No" - Explanation Required)  
Mold / Cavity / Production Process \_\_\_\_\_

## DECLARATION

I affirm that the samples represented by this warrant are representative of our parts, which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of / hours  
I also certify that documented evidence of such compliance is on file and is available for review. I have noted any deviations from this declaration below.

## EXPLANATION/COMMENTS

Is each Customer Tool properly tagged and numbered? Yes No NA

Organization Authorized Signature Pablo Guillermo Jimenez Date \_\_\_\_\_

Print Name \_\_\_\_\_ Phone No. \_\_\_\_\_ Fax \_\_\_\_\_

Title \_\_\_\_\_ Email \_\_\_\_\_

## FOR CUSTOMER USE ONLY (IF APPLICABLE)

PPAP Warrant Disposition : Approved Rejected Other \_\_\_\_\_

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_

Print Name \_\_\_\_\_ Customer Tracking Number (optional) \_\_\_\_\_



## **Section 18a**

# **Bulk Material Requirements**

**Not Applicable**